

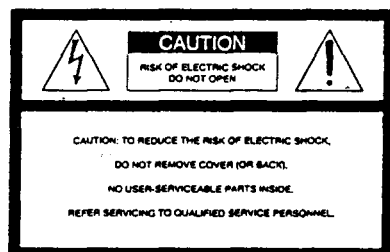
Home Theater Active Speaker System

Operating instructions

SA-VA35

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

You are cautioned that any change or modifications not expressly approved in this manual could void your authority to operate this equipment.

Owner's record

The model and serial numbers are located on the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. SA-VA35

Serial No. _____

For the customers in Canada

CAUTION

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

Welcome!

Thank you for purchasing a Sony speaker system.

Before operating the unit, please read this manual thoroughly and retain it for future reference.

About This Manual

The instructions in this manual describe the controls on the left speaker. You can also use the controls on the remote if they have the same or similar names as those on the left speaker.

- The following icons are used in this manual:



Indicates that you can use the remote to do the task.



Indicates hints and tips for making the task easier.

This speaker system incorporates the Dolby Pro Logic Surround System.*

- * Manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY," the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

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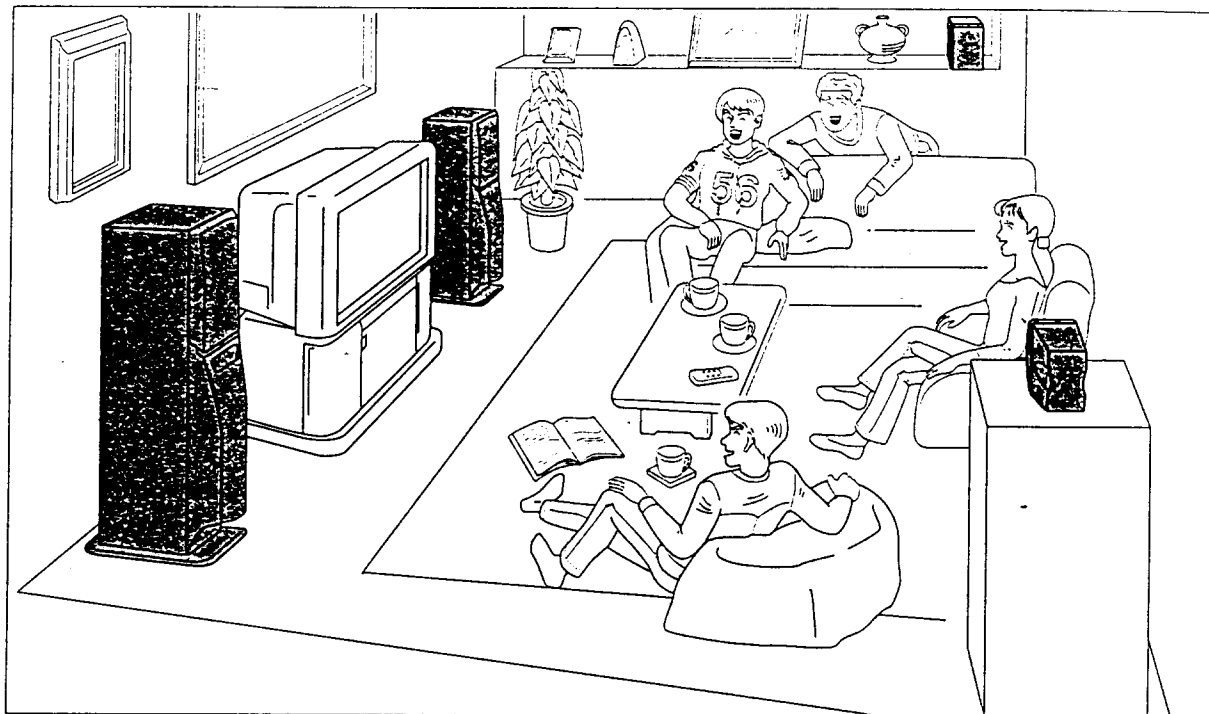
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The SA-VA35 is an active home-theater speaker system incorporating a Dolby Pro Logic decoder and super woofer speakers. Its design features allow easy connection to your current TV/VCR setup. You can connect this system without having to reconnect the cords of your TV and VCR. Also, you don't have to connect a center speaker to optimize the surround effects. Easy operation via the supplied remote ensures maximum enjoyment of the home-theater sound this system provides.

Five different types of surround sound accommodate a variety of program sources

Dolby Surround (Pro Logic) mode

Lets you enjoy superb theater-like presence and surround effects in your home when playing back video software encoded with the Dolby Surround system.

THEATER surround mode

Creates a theater-like environment in your living room by adding the acoustic reflections of a theater to decoded Dolby Surround signals.

HALL surround mode

Reproduce the acoustics of a rectangular concert hall. Ideal for soft, acoustic sounds, or giving an extra punch to debates and press conferences.

STADIUM surround mode

Provides a sense of presence similar to that of an open-air stadium. Ideal for maximum enjoyment of broadcasts of sporting events like football.

SIMULATED surround mode

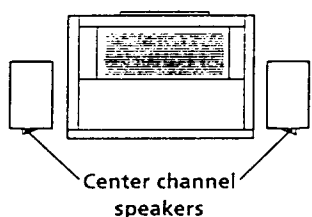
Creates simulated stereo surround effects from monaural sound sources, like old movies or monaural TV shows.

Built-in center speakers let you enjoy Dolby Pro Logic Surround sound

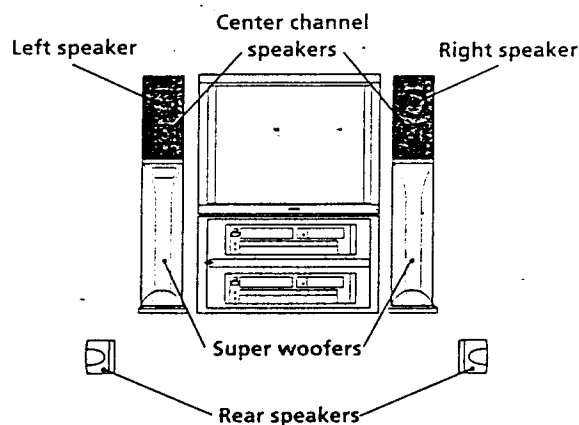
The use of a center speaker is a key factor in obtaining a full surround effect when playing sources encoded with the Dolby Pro Logic Surround sound system. Center speakers in a movie theater make central sounds, such as dialogue, clearer and create a unified sound image.

Normally, you have to install a center speaker separately, but this speaker system makes it easy to set up a high-performance home theater system by incorporating a high-quality center speaker system into the front speakers.

Top view



Front view



How the center speaker works

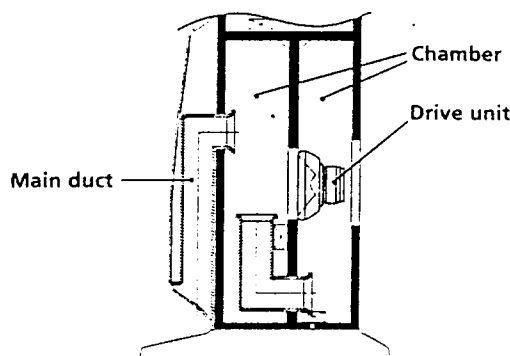
The front left and right speakers are equipped with center channel speakers (see above) angled inwards at 15° to reproduce the center channel sounds. This design produces a high-quality centralized sound image for the center channel which exactly matches the quality of the front channel sound to provide superior sound quality and a unified sound image without a cumbersome external center speaker.

Infrared type rear speakers for full surround sound and easy installation

The rear speakers supplied with this speaker system use an infrared receptor to receive signals from the front speakers so you can have a complete home theater that lets you enjoy the maximum surround effect without a profusion of unsightly speaker cords.

Dynamic Bass Roar (DBR) super woofer system provides theater-like bass sound

To provide a theater-like experience complete with dynamic bass sounds, this speaker system incorporates the Super Acoustically-loaded Woofer (SAW) design (see below) in the left and right front speakers to form a DBR super woofer system.



What is the SAW design?

The SAW design features a centrally-positioned woofer drive unit, two chamber construction, and a long main duct. Through precision control of the acoustics of the two chambers, the unit can reproduce powerful ultra low frequencies without muddiness.

In addition, we also included two super woofer modes designed to bring the dynamic bass sounds found in movie theaters (mode 1) and concert halls (mode 2) to your living room.

Power turns on and off automatically

The speakers will turn on automatically when a sound signal is input and turn off when you've finished watching a program and the sound signal goes out. So you don't have to bother using the power switch every time you use the system.

Precautions

On safety

- Should any solid object or liquid fall into the cabinet, unplug the speaker system and have it checked by qualified personnel before operating it any further.

On power sources

- Before operating the speakers, check that the operating voltage is identical with your local power supply. The operating voltage is indicated on the nameplate on the rear of the speakers.
- The speakers are not disconnected from the AC power source as long as they are connected to the wall outlet, even if the speakers themselves have been turned off.
- If you are not going to use the speakers for a long time, be sure to disconnect the speakers from the wall outlet. To disconnect the AC power cord, grasp the plug itself; never pull the cord.
- One blade of the plug is wider than the other for the purpose of safety and will fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Should the AC power cord need to be changed, have it done at a qualified service shop only.

On placement

- Do not place the speakers near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Good ventilation is essential to prevent internal heat buildup. Place the speakers in a location with adequate air circulation, and in a way that does not block the rear ventilation holes.

On cleaning

- Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

For the customers in the USA

For detailed safety precautions, see the "IMPORTANT SAFEGUARDS" leaflet.

If you have any question or problem concerning your receiver, please consult your nearest Sony dealer.

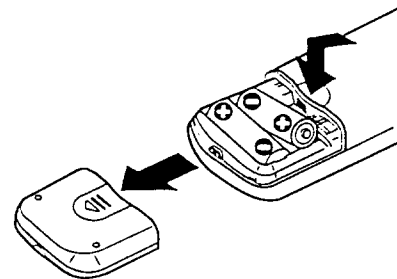
Unpacking

Check that you received the following items with your speaker system:

- Front L/R speaker connecting cord, 3.5 m (1)
- Rear speaker set SS-SR151 (1)
- Rear speaker connecting cord, 10 m (2)
- Audio connecting cord, 1.5 m (1)
- Remote commander (remote) RM-J35 (1)
- Sony SUM-3 (NS) batteries (2)
- Speaker stand (2)
- Screw (12)

Inserting batteries into the remote

Insert two size AA (R6) batteries with the + and - on the battery compartment. When using the remote, point it at the remote sensor  on the left front speaker.



When to replace batteries

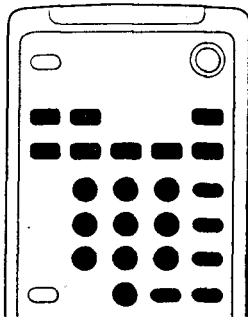
Under normal use, the batteries should last for about 6 months. When the remote no longer operates the speakers, replace both batteries with new ones.

Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you don't use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Using the remote

You can use the shaded buttons shown below to operate Sony VCRs (VHS) and TVs.

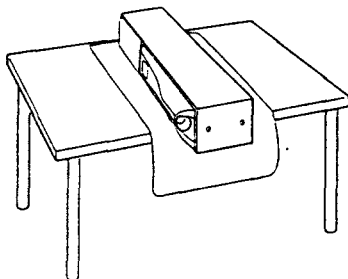


To	Press
operate a Sony VCR (VHS)	VCR, then press the button(s) for the operation you desire.
operate a Sony TV	TV, then press the button(s) for the operation you desire.
turn off a Sony VCR or TV	TV/VCR OFF

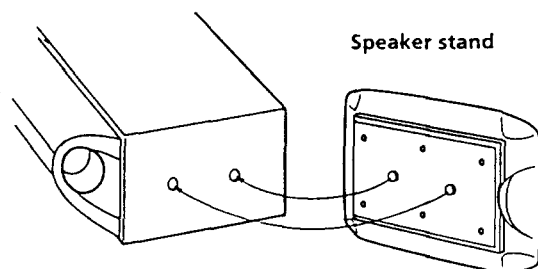
Installing the Speaker Stands

Be sure to install the supplied speaker stands before you use the speakers.

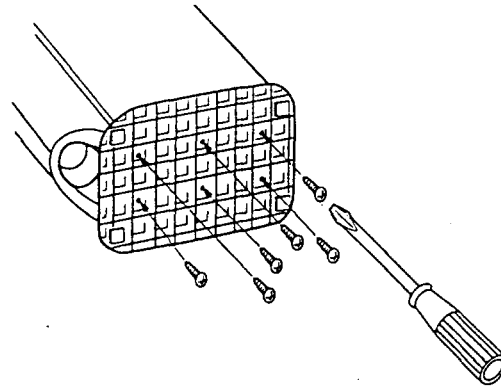
- 1 Spread a towel, or other soft cloth, over a table and lay the speakers down.



- 2 Align the pins on the stands with the holes on the bottom of the speakers.



- 3 Use a screw driver to fasten the stands to the bottom of the speakers with the supplied wood screws (6 for each speaker).

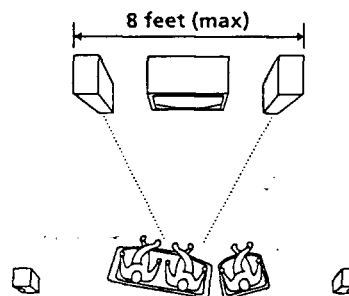


- 4 Make sure the stands are securely attached and stand the speaker upright.

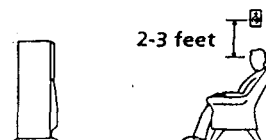
Choosing the Best Location

To obtain high sound quality and a proper sound image from the front speakers, place the speaker with the built-in operation panel to the left of your TV and the other to the right of your TV so that the center channel tweeters angle towards the center of the room.

For the best central sound image, place the left and right speakers within 8 feet of each other and equidistant from the TV.

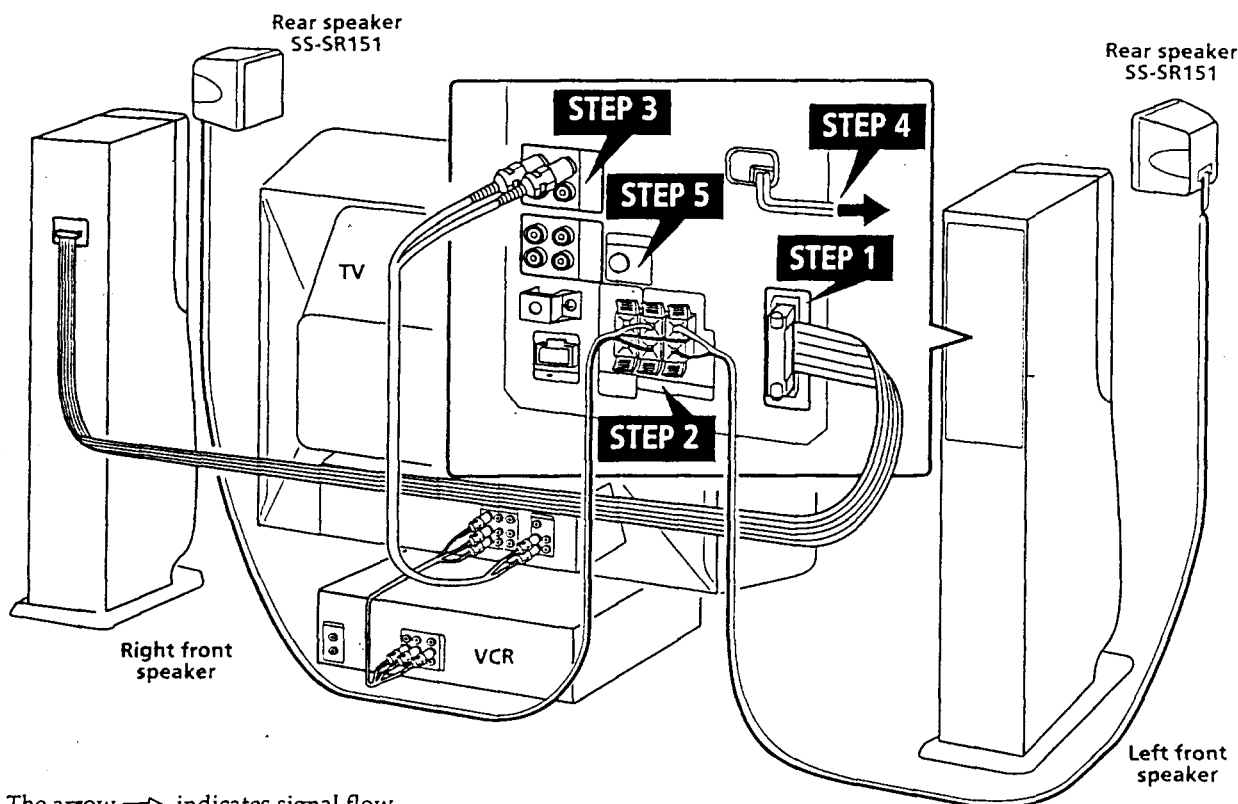


Place the rear speakers so that they fire directly across at each other about 2 to 3 feet above your listening position.



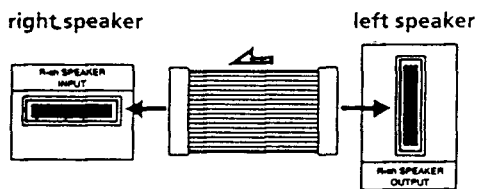
Speaker System Hookups

This section describes how to connect the speaker system and how to connect your TV or VCR to the speakers.



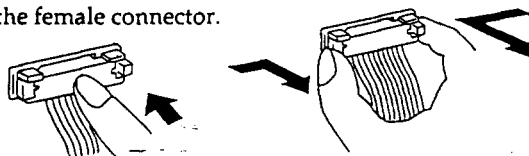
The arrow → indicates signal flow.

STEP 1 Connecting the front speakers



To connect, depress the middle of the male connector until it clicks into the female connector.

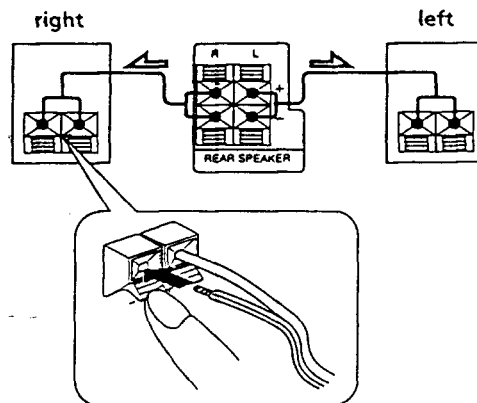
To disconnect, pull the connector out. Never pull the cord itself.



- 1 Twist the speaker cord coating and strip it from the end of the cords.



- 2 Insert the stripped wire into speaker terminals.



STEP 2 Connecting the rear speakers

Use the supplied speaker cord to connect the left and right rear speakers.

For Customers in Canada

Use only the supplied rear speakers SS-SR151.

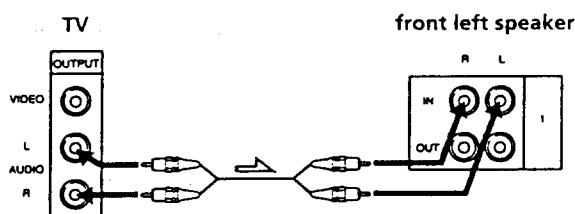
Be sure to connect matching speaker terminals (e.g. use the striped wire to connect + to +, and use the solid wire to connect - to -). If the connections are reversed (+ to -), the sound will be distorted and lack bass.

STEP 3 Connecting your TV

If the audio and video output terminals on your TV and VCR are already connected, and your TV has stereo AUDIO OUT jacks, you can start enjoying surround sound simply by connecting the speaker system to your TV as shown below.

Important

- Set the volume on your TV to MIN (minimum).
- If your TV has an ON/OFF switch for its internal speaker, set it to OFF and enjoy the sound from this speaker system.



If you use AUDIO OUT jacks marked VARIABLE

After making the connection as shown above, turn up the volume on the TV. Use this speaker system's volume control for regular volume adjustment. Turning down the volume on the TV reduces the AUDIO OUT signal level and may cause a loss in sound quality and/or the auto-power off function (see page 11) to function.

For the best possible sound (or if your TV only has a monaural AUDIO OUT jack, or no AUDIO OUT jacks)

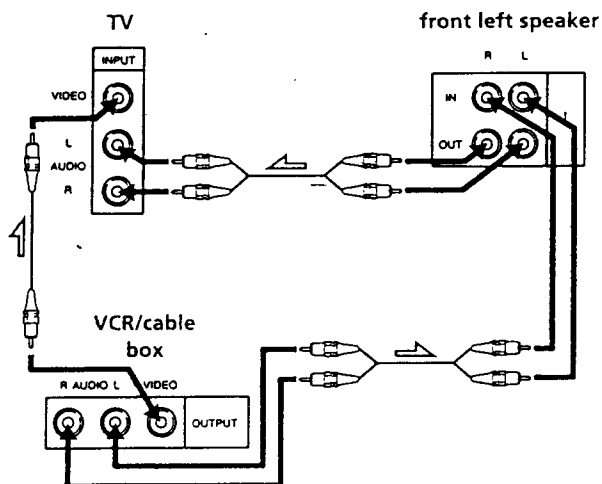
Connect the speaker system directly to your VCR or cable box.

The following connections suppress noise from the TV and let you enjoy high quality sound.

1 Connect your VCR or cable box to the 1 IN jacks on the left front speaker.

2 Connect your TV to the 1 OUT jacks on the left front speaker.

Make sure you use the 1 or 2 IN jacks that correspond to the VIDEO IN jack you are using on your TV set (i.e., VIDEO 1).



💡 If you have an additional VCR or LD player
Connect it to the 2 IN jacks and connect the 2 OUT jacks to the AUDIO IN jack on the back of your TV.

STEP 4 Connecting the AC power cord

Connect the AC power cord to a wall outlet.

STEP 5 Setting the MAIN POWER to ON

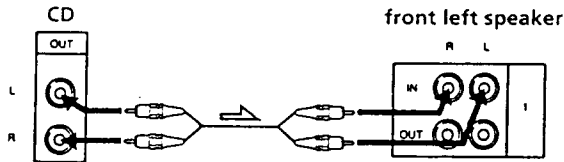
Press the MAIN POWER button to the ON position. This activates the standby mode and lights the red STANDBY indicator on the front of the speaker.

Notes

- The POWER button (on the front of the speaker) will not turn on the speakers if MAIN POWER is set to OFF.
- When the unit is not in use for a long period of time, be sure to set the MAIN POWER to OFF.

Audio Component Hookups

Since this speaker system incorporates its own internal amplifier and preamplifier, you can also connect an audio component, such as a CD player.

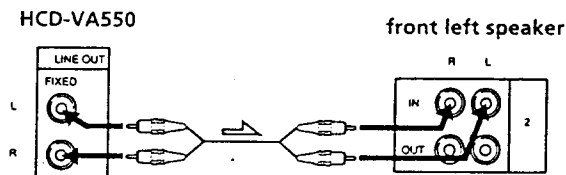


Note

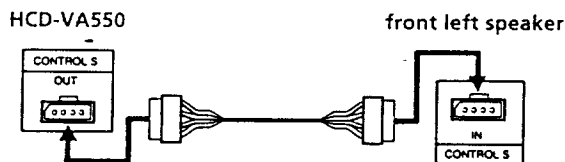
Do not connect an amplified audio source. The combined amplification from the component and the speaker's internal amplifier may damage the speakers.

Hooking up the Sony HCD-VA550 (Optional Compact Disc Deck Receiver)

- 1 Connect the LINE OUT FIXED jacks on the HCD-VA550 to the 2 IN jacks on the left front speaker. Be sure to connect it to the 2 IN jacks.



- 2 Connect the CONTROL S OUT jack on the HCD-VA550 component to the CONTROL S IN jack on the front left speaker.



Notes

- The automatic power on/off function (see page 11) is not activated by the signal from the HCD-VA550 to prevent unwanted outbursts of sound.
- See the operating instructions supplied with your HCD-VA550 for details regarding its operation.

Enjoying Surround Sound

You can take advantage of the speaker's surround sound simply by choosing a surround mode according to the type of program you are watching. This system is provided with three different surround modes:

DOLBY SUR. (Dolby Pro Logic Surround)

Reproduces superb theater-like presence and surround effects from video software encoded with Dolby Surround.

THEATER surround mode

Creates a theater-like environment in your living room by adding the acoustic reflections of a theater to decoded Dolby Surround signals.

HALL surround mode

Reproduce the acoustics of a rectangular concert hall. Ideal for soft, acoustic sounds, or for giving an extra punch to debates and press conferences.

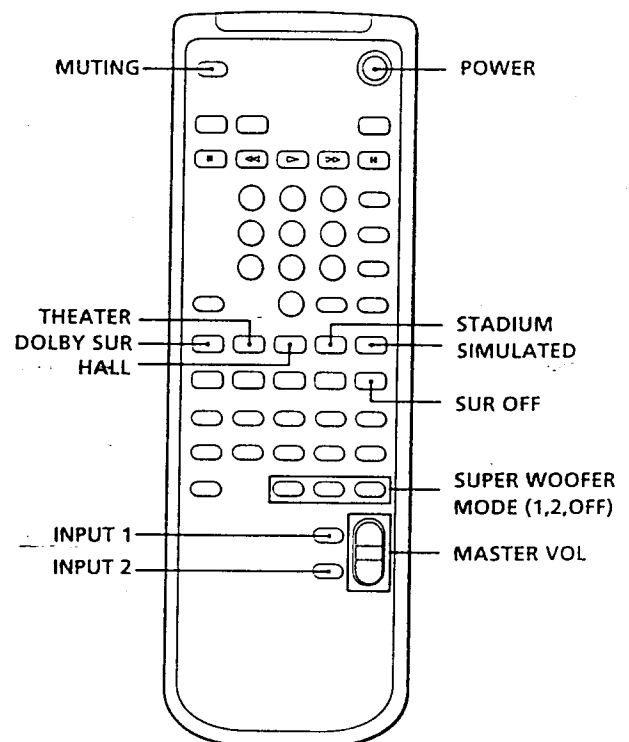
STADIUM surround mode

Provides a sense of presence similar to that of an open-air stadium. Ideal for maximum enjoyment of broadcasts of sporting events like football.

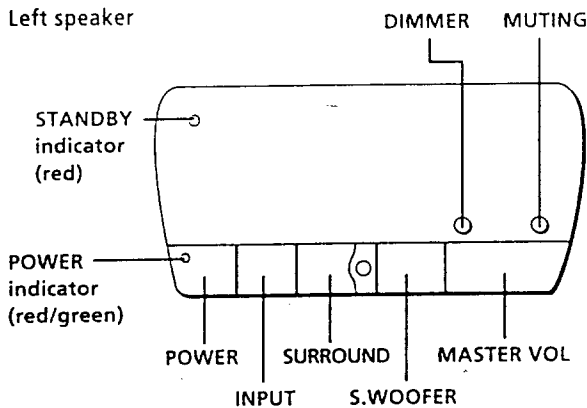
SIMULATED

Creates simulated stereo sound effects from monaural sound sources, like old movies or TV shows.

Remote



(continued)



- 1** Press **POWER**.
The **POWER** indicator lights (green) and the speakers turn on. Once you've turned the speakers on, they turn themselves off and on automatically with the auto power on/off function.

If the speakers do not turn on
Be sure you've set the **MAIN POWER** (on the back of the speaker) to **ON** as shown on page 9.
- 2** Press **INPUT** 1 or 2 on the remote or **INPUT** on the operation panel to select the program source. For example, if you connected your VCR to the 1 IN jacks, select **INPUT** 1.
The respective **INPUT** indicator lights up.
- 3** Start playback from the program source.
- 4** Press either **DOLBY SUR**, **THEATER**, **HALL**, **STADIUM**, or **SIMULATED** on the remote, or **SURROUND** on the operation panel a few times, according to the program you want to enjoy.

program	DOLBY SUR	THEATER	HALL	STADIUM	SIMULATED	OFF
recent movies	●	●				
concerts	●	●	●	●		
music		●	●	●		
sports			●	●		
old movies					●	
monaural TV programs					●	
education, news						●

To listen without surround effects

Press **SUR OFF** on the remote, or press **SURROUND** on the operation panel a few times until **SUR OFF** is displayed.

- 5** Press **MASTER VOL. (VOLUME)** to adjust the volume.

To select a suitable SUPER WOOFER mode

Press **SUPER WOOFER MODE** 1 or 2.

SUPER WOOFER MODE 1 provides powerful bass sound ideal for movies. **SUPER WOOFER MODE** 2 is a more subtle effect designed for music.

To mute the sound

Press **MUTING**.

To restore the sound, press **MUTING** again.

For other sound adjustments, see page 13.

💡 The speakers turn on and off automatically. (Auto power on/off function)

Three minutes after the sound signal goes out (when you turn off the TV, or the currently playing video/laserdisc ends), the speakers turn off automatically and the **POWER** indicator turns red.

The speakers turn themselves back on the next time you turn on the TV or start playback from the VCR.

💡 If you press **POWER** when the speakers are on

The speakers enter standby mode (the red standby indicator lights up) and the auto power on/off function will not operate. You have to press **POWER** again to turn on the speakers.

Note

Some videos and laser discs may use Dolby Surround sound even if it's not indicated on the package.

Changing the display

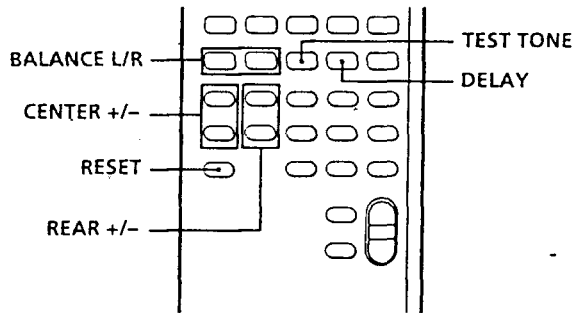
You can dim the display, or turn it off, according to your preference.

Press **DIMMER**, on the operation panel, a few times until the display mode you desire appears.

The display returns to full brightness temporarily when you press one of the buttons on the control panel or the remote.

Adjusting the Surround Sound

Although this speaker system is factory preset to provide balanced surround sound without adjustment, you can adjust the volume of each speaker and the delay time to accommodate the conditions in your living room or your individual preference.



Adjusting the speaker volumes

The test tone feature lets you adjust the volume of the sound coming from each speaker to the same level, so that the surround sound will be even and natural.

Make the following adjustments from your listening position.

- 1 Choose the DOLBY SUR mode.
- 2 Press TEST TONE on the remote.
The test tone comes from each speaker in sequence:
- 3 Adjust the volume levels so that you hear the test tone from each speaker at the same volume level when you are in your listening position:

To adjust the level	press
between the right and left front speakers	BALANCE L or R
of the center speaker	CENTER + or -
of the rear speaker	REAR + or -

- 4 Press TEST TONE on the remote to turn off the test tone.

To restore the center, rear, or balance levels to the factory setting

Press CENTER +/-, REAR +/-, or BALANCE L/R, then press RESET.

Note

Pressing buttons other than MASTER VOL., RESET, CENTER +/-, REAR +/-, or BALANCE L/R cancels the test tone.

Adjusting the delay time

By adjusting the delay time you can enhance the spatial characteristics of the sound to obtain a theater-like presence regardless of the size of your room. If the rear speakers are close to your listening position, choose a longer delay time.

You can adjust the settings individually for DOLBY SUR, THEATER, HALL, STADIUM, and SIMULATED.

Note

The delay time cannot be adjusted in PRO LOGIC 3CH mode.

- 1 Choose any surround mode.
- 2 Playback a program.
- 3 Press DELAY on the remote once to display the current delay time.
- 4 Press DELAY a few times to choose the delay time you prefer, either 15, 20, or 30 ms.
The factory setting is 20 ms.

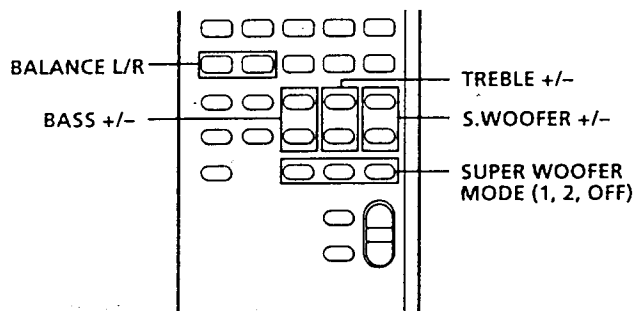
To restore the delay time to the factory setting
Press DELAY and then RESET.

Resetting an entire surround mode

Press the button for the surround mode you want to reset (i.e., HALL) and then press RESET while the name of the surround mode is being displayed. All of the adjustments in that mode, including the bass and treble, are reset to the factory settings.

Adjusting the Sound

Although this speaker system's sound quality is already adjusted. You can change the settings, as you like, for each surround mode individually. The following settings remain stored in their respective surround mode until you change them.



- 1 Playback a program and choose a surround mode.
- 2 Make the following sound adjustments according to your preference and/or the type of program you are watching.

To	press
adjust the super woofer level	S.WOOFER + or -
adjust the bass level	BASS + or -
adjust the treble level	TREBLE + or -
adjust the balance	BALANCE L or R*

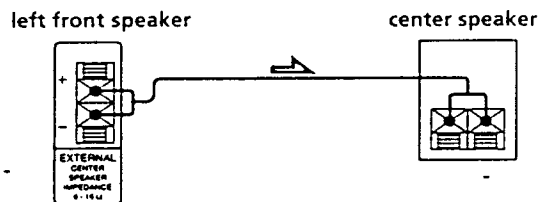
* Since BALANCE L and R control sound from the front speakers, they have little effect on DOLBY SUR when the source software has a high proportion of center-channel sound.

To restore the factory settings

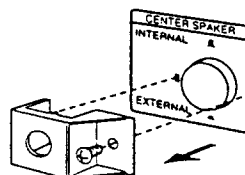
Press RESET after pressing either S.WOOFER +/-, BASS +/-, TREBLE +/-, or BALANCE L/R.

Using an External Center Speaker

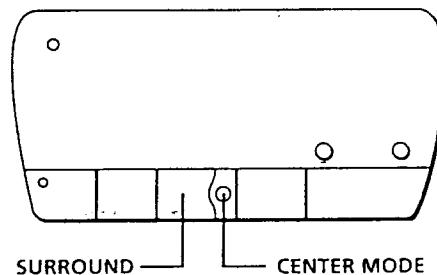
Since this system incorporates a center speaker (see page 5), you don't have to connect a center speaker. However, it is possible to connect a center speaker, if you already have one, to the CENTER SPEAKER terminals. Be sure to use a speaker with a 8 to 16 ohm impedance for the center speaker.



Use a screwdriver and remove the screw holding the CENTER SPEAKER button cover in place. Then depress the CENTER SPEAKER button. This turns off the internal center speaker and directs the center channel signal to the CENTER SPEAKER terminals.



Connecting an external center speaker lets you choose from 4 different Dolby Pro Logic Surround center modes: NORMAL, WIDE, 3 CH (3 Channel logic), or PHANTOM. Use the NORMAL or WIDE mode. For details on Dolby Pro Logic Surround sound, see page 15.



- 1 Press SURROUND on the front left speaker to choose PRO LOGIC. ("PRO LOGIC" appears in the display instead of "DOLBY SUR" when you connect an external center speaker.)
- 2 Press CENTER MODE on the front left speaker a few times until the center mode you want appears in the display.
- 3 Adjust the speaker volumes and delay time, if necessary, by referring to pages 12 and 13.

Troubleshooting

If you experience any of the following difficulties while using the speakers, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest Sony dealer.

There's no sound from any of the speakers.

- Check that components are connected securely to the speakers.
- Make sure you selected the correct input (1 or 2).
- Press **MUTING** to cancel the muting function.
- Press **MASTER VOLUME** + to turn up the volume.
- Turn up the volume on the TV to increase the output level when using the TV's **VARIABLE AUDIO OUTPUT** terminals.

No sound or only a very low sound level is heard from the rear speakers.

- Surround sound is turned off.
- Adjust the volume of the rear speakers (see page 12).
- Check the sound image balance with **TEST TONE** (see page 12).

There's no sound from the center speaker.

- Make sure you selected the **DOLBY SUR** (or **PRO LOGIC**) surround mode.
- No center speaker is connected, but the **CENTER SPEAKER** button on the rear panel is set to **EXTERNAL**.
- You connected an external center speaker, but the **Dolby Pro Logic Surround** center mode is set to **PHANTOM**.

- You connected an external center speaker, but the **CENTER SPEAKER** button on the rear panel is set to **INTERNAL**.

Severe hum or noise is heard.

- Move the connecting cord away from any transformers or motors and least 3 meters (10 feet) from any fluorescent lights.
- Connect the speakers to your **VCR** or cable box instead of to your TV (see page 9).

Remote operations cannot be performed.

- Point the remote towards the remote sensor on the left front speaker.
- Remove any obstructions between the remote and this system's left front speaker.
- Replace the batteries in the remote.

Specifications

Audio Power Specifications

For front two way speakers: with 8 ohm loads, both channels driven, from 70 Hz – 20 kHz; rated 22 watts per channel minimum RMS power, with no more than 0.9% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Continuous RMS power output	total 150 W
Center tweeter	32 W (8 ohms at 10 kHz, 9 % THD)
Front two way/Center woofer	27 W + 27 W (8 ohms at 10 kHz, 9 % THD)
Super woofer	32 W (8 ohms at 10 kHz, 9 % THD)
Rear	32 W (8 ohms at 10 kHz, 9 % THD)

Input sensitivity/Impedance	450 mV, 50 kilohms
Output sensitivity/Impedance	1/2: 450 mV, 1 kilohm External Center: 32 W (at 8 ohms, 1 kHz, 9 % THD), 8 – 16 ohms Rear: Accepts only supplied rear speakers SS-SR151 16 W + 16 W (at 16 ohms, 1 kHz, 9% THD) R-ch: Accepts only SA-VA35 R-ch speaker

Tone control Front/Center	Bass: ±10 dB at 100 Hz Treble: ±10 dB at 10 kHz
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Speaker section

Type	Bass reflex type
Front speaker	SAW type
DBR super woofer	Bass reflex type
Rear speaker	
Speaker unit Front speaker system	Center tweeter: 5 cm cone type (x2) Front tweeter: 2.5 cm dome type (x2) Front /Center woofer: 12 cm cone type (x2) Super woofer: 16 cm cone type (x2)
Rear speaker	8 cm cone type (x2)

General

Power requirement Front speakers	120 V AC, 60 Hz
Power consumption Front speakers	USA 110 W Canada 120 W

Dimensions

Front:
Approx. 280 x 1040 x 450 mm (w/h/d, including speaker base) (11 x 41 x 17 11/16 inches)
Rear:
Approx. 110 x 160 x 140 mm (w/h/d) (4 3/8 x 6 1/8 x 5 5/8 inches)

Mass

Front (L): 23 kg (50 lb 12 oz)
Front (R): 19 kg (41 lb 15 oz)
Rear: 700 g/pc (1 lb 9 oz)

Supplied accessories

- Rear speaker set SS-SR151 (1)
- Front L/R speaker connecting cord, 3.5 m (1)
- Rear speaker connecting cord, 10 m (2)
- Audio connecting cord, 1.5 m (1)
- Remote Commander RM-J35 (1)
- Sony batteries SUM-3 (NS) (2)
- Speaker stand (2)
- Screw (12)

Design and specifications are subject to change without notice.

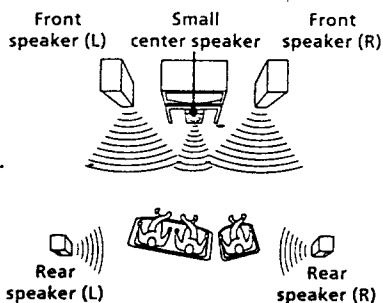
Glossary

Center mode

Speaker setting to enhance the Dolby Pro Logic Surround mode. Select one of the following four center modes according to your speaker system.

• NORMAL mode

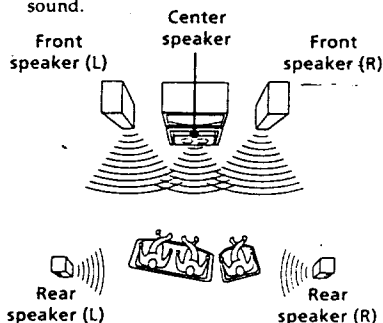
Select NORMAL mode if you connect a small sized active center speaker to this speaker system. Since a small speaker cannot produce enough bass, the bass sound of the center channel is output from the front speakers.



The test tone is output as shown on page 12.

• WIDE mode

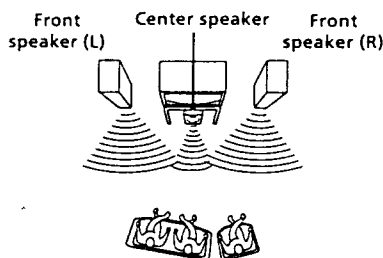
Select WIDE mode if you connect an active center speaker equivalent to the two front speakers. With the WIDE mode, you can take full advantage of Dolby Surround sound.



The test tone is output as shown on page 12.

• 3 CH LOGIC mode

Select 3 CH LOGIC mode if you don't want to use the rear speakers to output sound. The sound of the rear channel is output from the front speakers to let you experience some of the surround sound without using rear speakers.

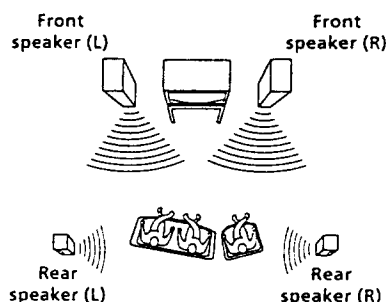


The test tone is output:

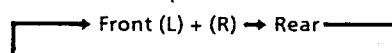


• PHANTOM mode

Select PHANTOM mode if you do not want to use the center speaker to output sound. The sound of the center channel is output from the front speakers.



The test tone is output:



Delay time

Time lag between the surround sound output from front speakers and rear speakers. By adjusting the delay time of the rear speakers, you can obtain the feeling of presence. Make the delay time longer when you have placed the rear speakers in a small room or close to your listening position, and make it shorter when you have placed them in a large room or apart from your listening position.

Dolby Pro Logic Surround

Decoding system of Dolby Surround sound standardized in TV programs and movies. Compared with the former Dolby Surround system, Dolby Pro Logic Surround improves sound image by using four separate channels: off-screen audio effects, on-screen dialog, left-to-right panning, and music. These channels manipulate the sound to be heard and enhance the action as it happens on the screen. To take advantage of Dolby Pro Logic, you should have at least one pair of rear speakers and/or one center speaker. You also need to select the appropriate center mode to enjoy a full effect.

Dolby Surround

Encoding and decoding system of Dolby Surround sound for consumer use. Dolby Surround decodes the extra channels on the Dolby Surround-encoded sound tracks of movie videos and TV programs and produces sound effects and echoes that make the action seem to envelop you.

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